

NEW ELECTRICAL SERVICES IN THE CITY OF BEDFORD

THE FOLLOWING GUIDELINES HAVE BEEN ESTABLISHED IN CONJUNCTION WITH OHIO EDISON AND FIRST ENERGY FOR THE INSTALLATION OF NEW SERVICES OR UPGRADES TO EXISTING ELECTRICAL SERVICES;

COMMERCIAL SERVICES:

1. All commercial services shall be equipped with by-pass meter bases.
2. All services installed on pedestals shall be supported by rigid steel legs and be equipped with 2 standard grounding electrodes separated by the minimum distance of 6 feet.

RESIDENTIAL/COMMERCIAL:

1. Masts that extend above a roof and that will support the weight of the service drop conductors shall be constructed of 2 ½" rigid steel conduit and be free of joints or couplings in the uppermost 10' section. Such masts shall be fastened securely to the wall of the building using straps or bolts.
2. Masts that do not extend above a roof shall be constructed of steel or PVC conduit and be equipped with a weatherhead. Conduit for 100amp services may be 1 ¼-inch diameter. Conduit for 200amp services shall be 2-inch diameter. Service entrance cable may be directly fastened to the side of a dwelling unit without the benefit of conduit only on the non-driveway side of a dwelling. Conduit is required on the driveway side as described.
3. An insulator/service rack or eyebolt shall be installed to support the weight of the service drop conductors to the pole for all services that do not extend above the roof of a structure. The insulator shall be securely fastened into a stud or other framing member of the structure and be located at a point 6-inches BELOW the weatherhead. See typical detail for further explanation.
4. The height of all service drop wiring shall be measured to the bottom of the drip loop and be as follows:
 - a. In a rear yard or other area subject only to pedestrian traffic the height to the conductor shall be a minimum of 10-feet.
 - b. Over a driveway subject only to passenger car traffic, the minimum height shall be 12-feet.
 - c. Over a driveway, alley or street subject to traffic other than passenger vehicle, the minimum height shall be 18-feet.
 - d. Service conductors shall NOT pass over or within a 10-foot horizontal distance of a swimming pool.
5. Size of service entrance cables shall be as shown in section 310-15, Notes to Ampacity Tables, paragraph 3, of the National Electrical Code. Grounding electrode conductor shall be the minimum of #4 solid copper conductor. Service disconnects shall be grounded to both the water service piping and a grounding electrode.
6. The height of the meter base and/or disconnect shall be a minimum of 48-inches and a maximum of 72-inches from grade to the center of the meter. All cabinets shall be weatherproof. Temporary construction services shall also include at least one 20-amp GFCI-protected outlet adjacent to panel.
7. Temporary service masts shall be a minimum of 4-inches X 6-inches X 8-feet above grade level and be braced in a minimum of 2 different directions 90 degrees from each other; one brace shall be installed in the direction toward the utility pole.